



## PATENT ABSTRACTS OF JAPAN

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WAKITANI TAKAO**(54) **GAS DISCHARGE DISPLAY APPARATUS**

## (57) Abstract:

**PURPOSE:** To prolong the life of a gas discharge display apparatus without degrading the insulating property of a dielectric layer surface by arranging an auxiliary discharging electrode to charge a second dielectric layer and a second electrode opposite to each other and forming the second dielectric layer out of porous material.

**CONSTITUTION:** An auxiliary discharging electrode 2, a first dielectric layer 3a, a second dielectric layer 3b, and stripe shape first electrode 4 group are successively layered on a glass substrate 1. Stripe shape second electrode 6 group which are kept from the first electrode 4 group by a prescribed distance by a barrier plate 5 and rectangular to the electrode 4 group are formed on a translucent glass substrate 7 and the discharging electrode 2 and an electrode 6 are so set on the opposite to each other as to charge the dielectric layer 3b. The dielectric layer 3a is formed out of a compound material containing oxides and having a prescribed pore diameter. The dielectric layer 3b is formed out of a porous compound material having a prescribed pore diameter. The lower face of the

barrier plate 5 touches the dielectric layer 3b and the electrode 4 group and the upper face of the barrier plate 5 touches the glass substrate 7 and each contact part of the substrate 1 and the substrate 7 is air-tightly sealed with low melting glass and thus discharge spaces are formed.

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